

Application S/N 10/750,593
Amendment dated: January 5, 2007
Response to Office Action dated: August 25, 2006

CE11882JEM – Patino, et al.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method for charging a battery, comprising the steps of:

supplying a charging current to a battery through a first charging circuit,
wherein the battery includes the first charging circuit and provides power to an electronic device;

sensing the charging current to the battery;

selectively signaling ~~an~~ the electronic device from the battery to indicate at least one parameter of the battery as the battery is receiving the charging current; and

in response to selectively signaling the electronic device, disabling a second charging circuit, wherein the electronic device includes the second charging circuit and the second charging circuit is capable of directing charging current to the battery if charging current is being fed to the electronic device.

2. (currently amended) The method according to claim 1, wherein the charging current from the first charging circuit is from a wireless charger.

3. (currently amended) The method according to claim 1, wherein the parameter is at least one of a charging state of the battery and a predetermined current threshold of the charging current from the first charging circuit.

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4. (original) The method according to claim 1, wherein the battery signals the electronic device over an input/output line and wherein the input/output line is a preexisting reading conductor.

5. (original) The method according to claim 4, wherein the preexisting reading conductor is a thermistor line.

6. (canceled)

7. (original) The method according to claim 1, further comprising the step of updating a charging indicator of the electronic device.

8. (original) The method according to claim 4, wherein the selectively signaling step comprises the step of toggling the input/output line between a high state, a low state and a release state during the signaling step.

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9. (original) A method of wirelessly charging a battery, comprising the steps of:
- supplying a charging current from a wireless charger to a battery;
 - sensing the charging current;
 - selectively toggling between high and low states an input/output line between an electronic device and the battery to indicate to the electronic device at least one parameter of the battery as the battery is receiving the charging current.
10. (currently amended) A system for charging a battery, comprising:
- an electronic device;
 - a charger; and
 - a battery, wherein the battery supplies power to the electronic device, wherein the charger supplies a charging current to the battery through a first charging circuit included in the battery and wherein the battery includes a charging monitor that senses the charging current and selectively signals the electronic device to indicate at least one parameter of the battery as the battery is receiving the charging current, wherein the electronic device includes a second charging circuit and is designed to disable the second charging circuit in response to the signal indicating the parameter of the battery, wherein the second charging circuit is capable of directing charging current to the battery if charging current is being fed to the electronic device.
11. (original) The system according to claim 10, wherein the charger is a wireless charger and the charging monitor is a processor.

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12. (currently amended) The system according to claim 10, wherein the parameter is at least one of a charging state of the battery and a predetermined current threshold of the charging current of the first charging circuit.

13. (original) The system according to claim 10, further comprising an input/output line between the battery and the electronic device, wherein the charging monitor signals the electronic device over the input/output line and wherein the input/output line is a preexisting reading conductor.

14. (original) The system according to claim 13, wherein the preexisting reading conductor is a thermistor line.

15. (canceled)

16. (previously presented) The system according to claim 10, wherein the charging monitor causes a charging indicator of the electronic device to be updated when the charger supplies the charger current to the battery.

17. (original) The system according to claim 13, wherein the charging monitor toggles the input/output line between a high state, a low state and a release state when the charging monitor selectively signals the electronic device.

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18. (original) A system for wirelessly charging a battery, comprising:
- a wireless charger;
 - a battery having a charging monitor; and
 - an input/output line for coupling between the battery and an electronic device, wherein the wireless charger supplies charging current to the battery and wherein the charging monitor selectively toggles between high and low states the input/output line to indicate to the electronic device at least one parameter of the battery as the battery is receiving the charging current.

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19. (currently amended) A battery, comprising:

- a first charging circuit for receiving a charging current; and
- a charging monitor coupled to the first charging circuit, wherein the charging monitor senses the charging current received by the first charging circuit and selectively signals an electronic device powered by the battery to indicate at least one parameter of the battery as the battery is receiving the charging current and wherein the electronic device uses the signal to disable a second charging circuit, wherein the electronic device includes the second charging circuit and the second charging circuit is capable of directing charging current to the battery if charging current is being fed to the electronic device.

20. (previously presented) An electronic device, comprising:

- a processor;
- an input/output line coupled to the processor;
- a charging circuit; and
- a charging indicator;

wherein the processor is programmed to detect signals from a battery having a second charging circuit over the input/output line and in response to the detection of the signals, the processor is further programmed to disable the second charging circuit or update the charging indicator.